



**MISSOURI**  
DEPARTMENT OF  
NATURAL RESOURCES

## Total Maximum Daily Load Information Sheet

### Cinque Hommes Creek

**Water Body ID: 1781**

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#### Water Body Segment at a Glance:

**County:** Perry  
**Nearby City:** Perryville  
**Water Body ID:** 1781  
**Segment Length:** 17.1 miles  
**Pollutant:** *E. coli* bacteria  
**Source:** Rural nonpoint sources



Statewide Map Showing Location of Watershed

#### Scheduled for TMDL development:

TMDL development schedules are subject to change.

The most current schedule for TMDL development is available on the department's website at [dnr.mo.gov/env/wpp/tmdl/wpc-tmdl-progress.htm](http://dnr.mo.gov/env/wpp/tmdl/wpc-tmdl-progress.htm).

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### Description of the Problem

A water body is considered impaired when it fails to meet applicable water quality standards. Water quality standards consist of designated uses, water quality criteria, an antidegradation policy and implementation procedures. Cinque Hommes Creek is impaired due to exceedances of the water quality criteria for the protection of recreational uses.

#### Designated uses of Cinque Hommes Creek\*

- Warm Water Habitat (WWH)
- Whole Body Contact Recreation Category B (WBC-B)
- Secondary Contact Recreation (SCR)
- Human Health Protection (HHP)
- Irrigation (IRR)
- Livestock and Wildlife Protection (LWP)

\*In addition to these specific uses, all waters of the state are protected by the general water quality criteria that are specified in the state's Water Quality Standards at 10 CSR 20-7.031(4).

#### Designated use that are impaired

- Whole Body Contact Recreation Category B (WBC-B)

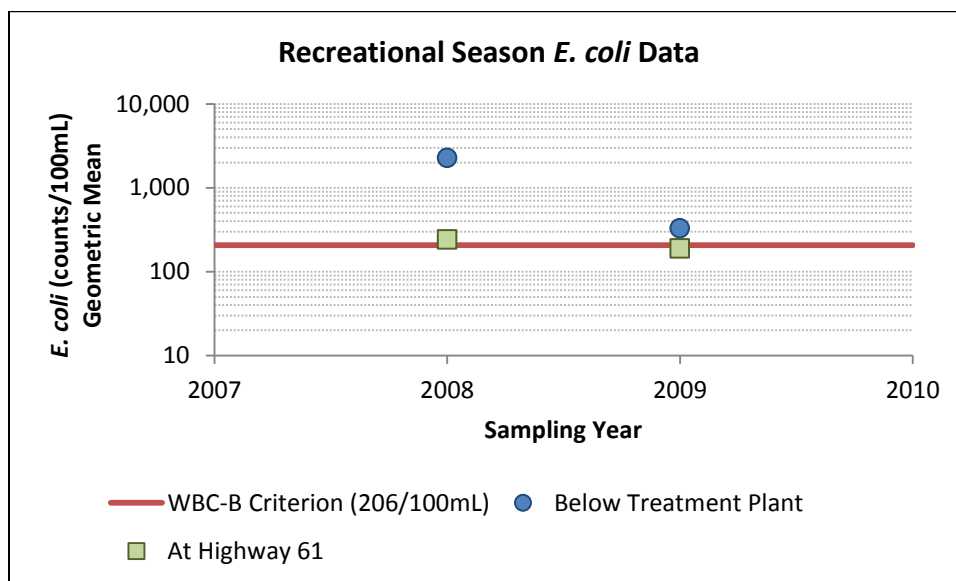
### Criteria that apply

- Missouri's Water Quality Standards at 10 CSR 20-7.031(5)(C) and Table A state that for waters designated for whole body contact recreation category B, the *E. coli* bacteria count, measured as a geometric mean, shall not exceed 206 colonies per 100 milliliters of water during the recreational season. The recreational season is defined as being from April 1 to October 31.

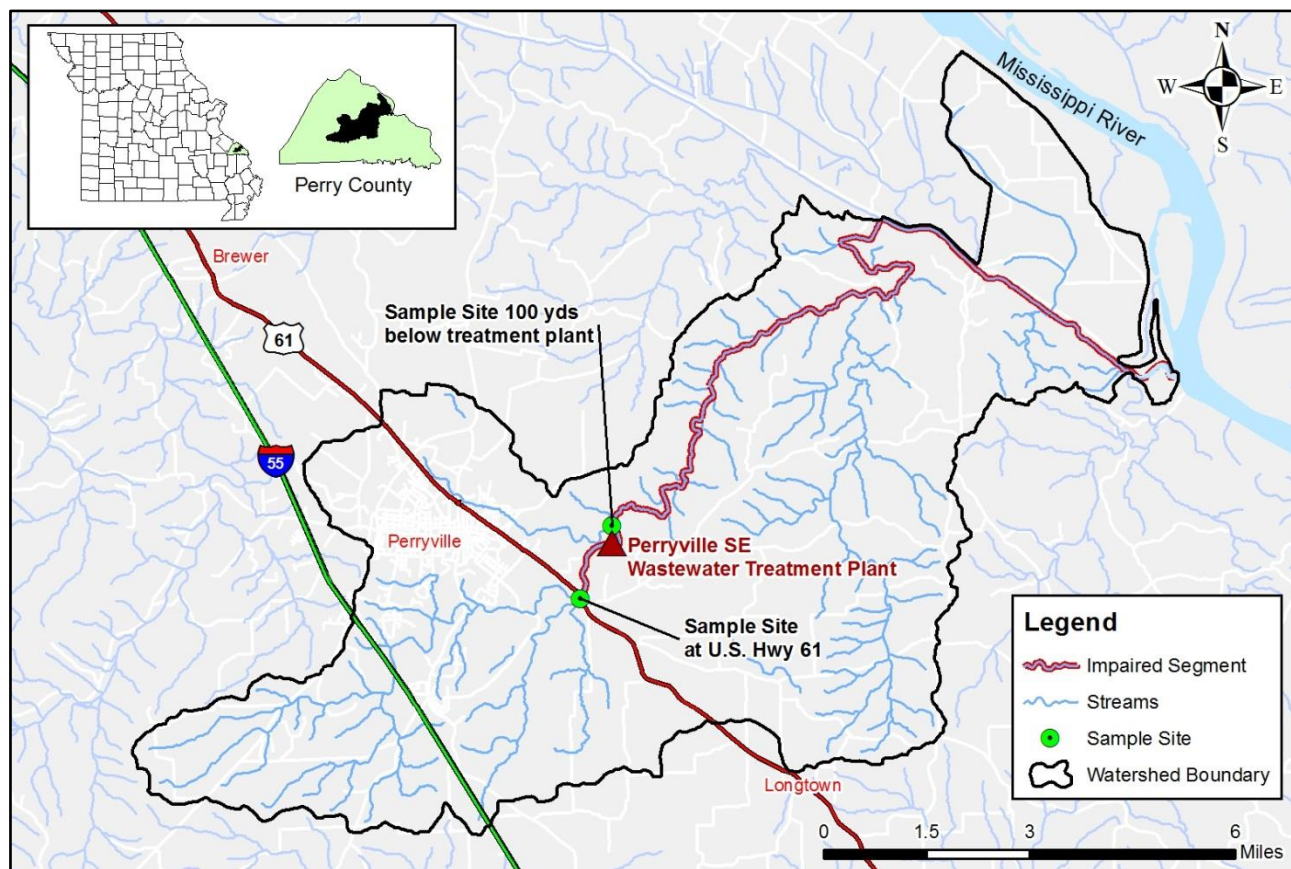
### Assessment and water quality data

The department judges a stream to be impaired by bacteria if the water quality criterion for *E. coli* is exceeded in any of the last three years for which there is adequate data (minimum of five samples taken during the recreational season). High counts of *E. coli* are an indication of fecal contamination and an increased risk of pathogen-induced illness to humans.

*E. coli* bacteria data for Cinque Hommes Creek were collected from two sites in 2008 and 2009. The recreational season geometric mean of these data exceeded the whole body contact category B criterion in 2008 and 2009 from the site located 100 yards below the Perryville wastewater treatment plant. The data from the second site, located at the U.S. Highway 61 stream crossing, violated water quality standards in 2008.



## Map of the Cinque Hommes Creek Watershed



### TMDL for Cinque Hommes Creek

The Cinque Hommes Creek TMDL will calculate the maximum amount of each listed pollutant that the stream can receive and still meet water quality standards. The TMDL will also identify all potential or suspected pollutant sources in the watershed and distribute the allowable pollutant loads among those various sources. When developed, the Cinque Hommes Creek TMDL will use the most current and available data. For this reason, the final TMDL may present information that differs from that contained in this information sheet.

### For more information call or write:

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